DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-008604 Address: 333 Burma Road **Date Inspected:** 11-Aug-2009

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: ZPMC and ABF **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component: SAS** Tower

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector Mr. Wai Pau, was present during the times noted above for observations relative to the work being performed.

Tower Assemble Yard

East Tower Lift #1 & #2:- Caltrans QA Inspector observed ten ZPMC workers performed drilling process on two tower connection areas of the skin plate B and D for east tower lift #1 & #2. The holes template has been installed and secured by hold devices, the alignment of holes template has accepted by ZPMC and ABF prior drilling hole. Based on Caltrans QA inspector observations, no discrepancies were noted.

South Tower Lift #1 & #2:- Caltrans QA Inspector observed nine ZPMC workers performed drilling process on two tower connection areas of the skin plate A and B for south tower lift #1 & #2. The holes template has been installed and secured by hold devices, the alignment of holes template has accepted by ZPMC and ABF prior drilling hole. Based on Caltrans QA inspector observations, no discrepancies were noted.

Bay #10 South and North Tower Shop

South Tower Lift #3:- Caltrans QA Inspector observed six ZPMC grinders and two welders in process of grinding and FCAW repair welding on fit lugs and rat holes of interior diaphragms. The fit lugs and rat holes located at the elevation 85.25m to 111.67m diaphragm sections that connected skin plate D of south tower lift #3. The grinding and FCAW repair welding process were monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QAI observations, no discrepancies were noted.

North Tower Lift #2:- Caltrans QA Inspector observed five ZPMC grinders and one welder in process of grinding and FCAW repair welding on fit lugs and rat holes of interior diaphragms. The fit lugs and rat holes located at the

WELDING INSPECTION REPORT

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elevation 53 m to 80.75m diaphragm sections that connected skin plate A of north tower lift #2. The grinding and FCAW repair welding process were monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QAI observations, no discrepancies were noted.

North Tower Lift #3:- Caltrans QA inspector observed four ZPMC welding operators performed semi-automatic SAW on outer corner longitudinal seam weld that connected skin plate A to E of north tower lift #3. The semi-automatic SAW was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QAI observations, no discrepancies were noted.

Bay #11 East and West Tower Shop

West Tower Lift #2:- Caltrans QA Inspector observed two welders performed FCAW repair process on inner corner longitudinal seam weld that connected skin plate A to E. The FCAW repair welding located at elevation 65m and 71m diaphragm section. The FCAW repair welding was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA inspector observations, no discrepancies were noted.

East Tower Lift #3:- Caltrans QA Inspector observed two welders performed FCAW repair process on inner corner longitudinal seam weld that connected skin plate A to B. The FCAW repair welding located at elevation 92. 5m and 102.5m diaphragm section. The FCAW repair welding was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA inspector observations, no discrepancies were noted.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

As notes within report above.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Serge Sinoved 13482570045, who represents the Office of Structural Materials for your project.

Inspected By:	Pau,Wai	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer